

IPW



INT-03-014

July 14, 2004

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572
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Subject: | Serial No. 10/827,061 04/19/04 |

Thomas Aisenbrey

LOW COST RESONATOR USING CONDUCTIVE
PLASTICS OR CONDUCTIVE COMPOSITES

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
mail in an envelope addressed to: Commissioner for Patents,
P.O. Box 450, Alexandria, VA 22313-1450, on July 15, 2004.

George O. Saile, Reg. No. 19572

Signature/Date

George O. Saile 7/15/04

U.S. Patent 6,111,343 to Unami et al., "Piezoelectric Resonator and Electronic Component Including Same," teaches a piezoelectric resonator device including conductive resin film to reduce contact capacitance.

U.S. Patent 4,267,480 to Kanematsu et al., "Conductive Elastomeric Pad for Piezoelectric Device," teaches a piezoelectric resonator device.

U.S. Patent 4,786,837 to Kalnin et al., "Composite Conformable Sheet Electrodes," teaches a composite ceramic/polymer sheet electrode transducer.

U.S. Patent 6,664,863 to Okamoto et al., "LC Oscillator," teaches a LC oscillator integrated onto an IC.

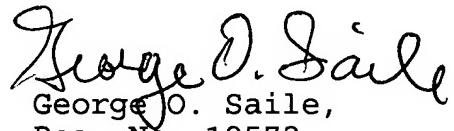
U.S. Patent 6,268,778 to Mucke et al., "Method and Apparatus for Fully Integrating a Voltage Controlled Oscillator on an Integrated Circuit," teaches a voltage controlled oscillator using a LC resonator with tunable frequency based on a variable capacitor network.

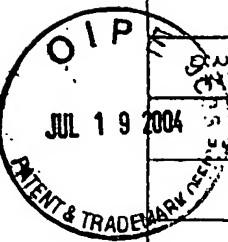
Cleland et al., in the article, "Fabrication of high frequency nanometer scale mechanical resonators from bulk Si crystals," Applied Physics Letter 69(18), 28 October 1996, pp. 2653-2655, teaches a crystal resonator on bulk Si.

INT-03-014

UK Patent Application GB 2 377 449 A to Sayers,
"Electrically Conductive Polymer Composition," discusses
electrically conductive compositions and their use to prevent
electrostatic discharge and to earth electrical devices.

Sincerely,


George O. Saile,
Reg. No. 19572



Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)				Docto ^r Number (Specia ^l ist) INT-03-014	Applicati ⁿ Number 10/827,061		
				Applicant Thomas Aisenbrey			
				Filing Date 04/19/04	Group Art Unit Art Unit		
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
2004 MARK NEMEYER	61113438/29/00		Unami et al.	310	366	8/20/98	
	42674805/12/81		Kanematsu et al.	310	366	5/23/79	
	478683711/22/88		Kalnin et al.	310	364	5/5/87	
	666486312/16/03		Okamoto et al.	331	117R	7/24/00	
	62687787/31/01		Mucke et al.	331	117R	5/3/99	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO	
GB 2 377449A	1/15/03		United Kingdom	c08K	31/08		
OTHER DOCUMENTS (Including Author, Title, Date, Page ^s , Etc.)							
-	Cleland et al., "Fabrication of high frequency nanometer scale mechanical resonators from bulk Si crystals", Applied Physics Letter 69(18), 28 Oct. 1996, pp. 2653-2655.						
EXAMINER				DATE CONSIDERED			